

June 15 - 16, 2004 • New York, NY  

Sponsored Links			
Fiber Optic Backdrops As seen in this year's Oscar Show Custom and Rental Curtains & Drops	Fiber optic patch cable Guaranteed Cabling and Networking products. 100% optical tested.	Fiber Optic Cables SM, MM, Multi-fiber, PM, MTRJ, MTP. Standard, custom, rugged, d38999.	CableMaster Same day shipment, competitive prices on lc, sc, st, mtrj

internet.com

You are in the: Small Business Channel



internet.com

(Webopedia)The #1 online encyclopedia
dedicated to computer technology

Enter a word for a definition...

...or choose a computer category.

Go!

choose one...

Go!

MENU

[Home](#)
[Term of the Day](#)
[New Terms](#)
[New Links](#)
[Quick Reference](#)
[Did You Know?](#)
[Search Tool](#)
[Tech Support](#)
[Webopedia Jobs](#)
[About Us](#)
[Link to Us](#)
[Advertising](#)

InfiniBand

Last modified: Thursday, January 29, 2004

Both an I/O architecture and a specification for the transmission of data between processors and I/O devices that has been gradually replacing the PCI bus in high-end servers and PCs. Instead of sending data in parallel, which is what PCI does, InfiniBand sends data in serial and can carry multiple channels of data at the same time in a multiplexing signal. The principles of InfiniBand mirror those of mainframe computer systems that are inherently channel-based systems. InfiniBand channels are created by attaching host channel adapters (HCAs) and target channel adapters (TCAs) through InfiniBand switches. HCAs are I/O engines located within a server. TCAs enable remote storage and network connectivity into the InfiniBand interconnect infrastructure, called a *fabric*. InfiniBand architecture is capable of supporting tens of thousands of nodes in a single subnet.

InfiniBand is a trademarked term. The technology is a result of the merger of two competing designs -- *Future I/O*, which was developed by Compaq, IBM and Hewlett-Packard, and *Next Generation I/O*, which was developed by Intel, Microsoft and Sun Microsystems. InfiniBand was previously called *System I/O*.

InfiniBand transmission rates begin at 2.5Gbps.

•[E-mail this definition to a colleague](#)•

X X X

Related Categories

X X X

[Buses](#)[Networks](#)[Servers](#)**Related Terms**[architecture](#)[bus](#)[channel](#)[I/O](#)[PCI](#)

For internet.com pages about **InfiniBand**
CLICK HERE. Also check out the
following links!

LINKS = Great Page!

internet.com

Developer
Downloads
International
Internet Lists
Internet News
Internet Resources
IT
Linux/Open Source
Small Business

[An Introduction to the InfiniBand Architecture](#) 

This article reviews each of the main architectural features of the InfiniBand as a solution to the corresponding limitation of current I/O subsystems.

[InfiniBand Trade Association](#) 



Sponsored Links

Drapery Fabric Outlet

Huge Discount on Decorator Brands
Save on Cotton/Floral Prints, Toile

Discount Fabrics USA

\$6.00 a yard Outdoor Fabric Sale
going on now + Free Shipping!

Waverly Toile Bedding

Waverly Toile Comforters, Valances
Wallpaper, Fabrics - Free Shipping

Upholstery Fabric Yardage

Buy cut yardage, Suedes, florals,
denim, plaids etc. Free shipping!

internet.com You are in the: Small Business Channel



internet.com

(Webopedia)

The #1 online encyclopedia
dedicated to computer technology

Enter a word for a definition...

...or choose a computer category.

Go!

 choose one...

Go!

MENU

[Home](#)[Term of the Day](#)[New Terms](#)[New Links](#)[Quick Reference](#)[Did You Know?](#)[Search Tool](#)[Tech Support](#)[Webopedia Jobs](#)[About Us](#)[Link to Us](#)[Advertising](#)

Compare Prices:

 go

[Submit a URL](#)[Suggest a Term](#)[Report an Error](#)

internet.com

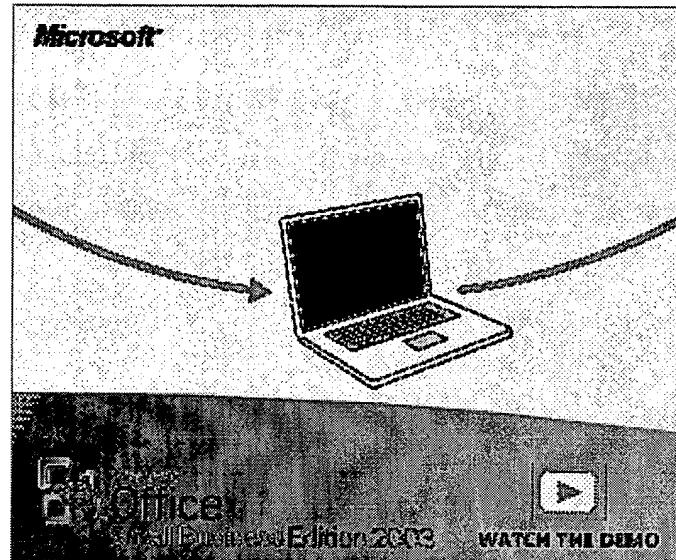
[Developer](#)[Downloads](#)[International](#)[Internet Lists](#)[Internet News](#)[Internet Resources](#)

IT

[Linux/Open Source](#)[Small Business](#)[Windows Technology](#)[Wireless Internet](#)[xSP Resources](#)[Search internet.com](#)[Advertise](#)[Corporate Info](#)

fabric

Last modified: Wednesday, December 18, 2002

(1) See [SAN fabric](#).(2) The interconnect infrastructure of an [InfiniBand](#) architecture.[•E-mail this definition to a colleague•](#)

Related Categories

Related Terms

Give Us Your
Feedback

Sponsored listings

[eBay: Fabrics](#) - Online marketplace for buying and selling fabrics.

For [internet.com](#) pages about **fabric**
CLICK HERE. Also check out the
following links!

LINKS

!= Great Page!

FABRIC Products :

Top Store Offers:

[Horchow](#) 74.90"Ribbon
Fantasy" Bedding 6 yards x 36"
White Tulle Fabric

Living in Comfort

6.65Allergy Proof Zippered
Pillow Encasing, Ultima II

June 15 - 16, 2004 • New York, NY  Growing Business Online

Sponsored Links

Looking for TCP/IP info? Visit our Networking Knowledge Base News, Research, and Tech Support	TCP/IP Reference Guide Anyone can learn TCP/IP! Extensive, Easy to read, PDF format, under \$40	TCP IP Problem? Fix Now Distributor of Free Download Tools. Auto-Fix All TCP IP Problems Fast!	IP Subnetting Made Easy Tips & Tricks to Pass CCNA MCSE Easy PayPal, Fast Shipping, \$19.97
--	--	---	--

internet.com® You are in the: Small Business Channel 



internet.com **(Webopedia)** The #1 online encyclopedia
dedicated to computer technology

Enter a word for a definition...

...or choose a computer category.





MENU

[Home](#)
[Term of the Day](#)
[New Terms](#)
[New Links](#)
[Quick Reference](#)
[Did You Know?](#)
[Search Tool](#)
[Tech Support](#)
[Webopedia Jobs](#)
[About Us](#)
[Link to Us](#)
[Advertising](#)

[Compare Prices](#) 

go

 [HardwareCentral](#)

[Talk To Us...](#)

[Submit a URL](#)

[Suggest a Term](#)

[Report an Error](#)

Travel Ideas:
[Disney Vacations](#)
[Hawaii Hotels](#)
[New Orleans Hotels](#)
[Orlando Hotels](#)
[Spring Break](#)
[Disney World](#)
[Disney Tickets](#)
[Colorado](#)

subnet

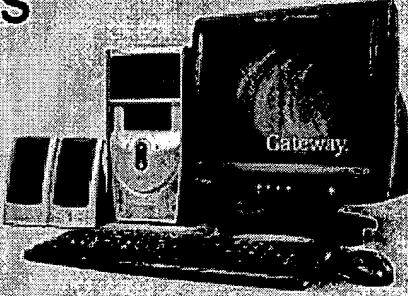
Last modified: Thursday, July 31, 2003

A portion of a [network](#) that shares a common address component. On [TCP/IP](#) networks, subnets are defined as all devices whose [IP addresses](#) have the same prefix. For example, all devices with IP addresses that start with 100.100.100. would be part of the same subnet. Dividing a network into subnets is useful for both security and performance reasons. IP networks are divided using a [subnet mask](#).


Gateway Professional
36USC220506
OFFICIAL SPONSOR OF THE 2004 U.S. OLYMPIC TEAM



Business Power on a Budget



[CLICK HERE](#) Innovative products

[E-mail this definition to a colleague](#)

Related Categories

[Business Computing](#)

[Networks](#)

Related Terms

[default gateway](#)

[IP address](#)

[subnet mask](#)

LINKS

 = Great Page!

internet.com

[Developer](#)
[Downloads](#)
[International](#)
[Internet Lists](#)
[Internet News](#)
[Internet Resources](#)
[IT](#)
[Linux/Open Source](#)
[Small Business](#)

(Webopedia)

Give Us Your
Feedback

Shopping